



7-1/4 INCH CIRCULAR SAW

Model 94245

SET UP AND OPERATING INSTRUCTIONS



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**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

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For technical questions or replacement parts, please call 1-800-444-3353.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

General Power Tool Safety Warnings



WARNING Read all safety warnings and instructions. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. **Work area safety**
 - a. **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
 - b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
 - c. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*
2. **Electrical safety**
 - a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
 - b. **Avoid body contact with grounded surfaces such as pipes, radiators,**

ranges and refrigerators. *There is an increased risk of electric shock if your body is grounded.*

- c. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.**
- e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- f. **If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply.** *Use of a GFCI reduces the risk of electric shock.*

3. **Personal safety**

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
- b. **Use safety equipment. Always wear eye protection.** *Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking**

up or carrying the tool. *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*

- d. **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry or long hair can be caught in moving parts.*
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of these devices can reduce dust-related hazards.*
- h. **Only use safety equipment that has been approved by an appropriate standards agency.** *Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.*

4. **Power tool use and care**

- a. **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
- b. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled*

with the switch is dangerous and must be repaired.

- c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
 - d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
 - e. **Maintain power tools.** *Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.*
 - f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
 - g. **Use the power tool, accessories and blades etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
5. **Service**
- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

Circular Saw Safety Warnings

- 1. **⚠DANGER:** **Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** *If both hands are holding the saw, they cannot be cut by the blade.*
- 2. **Do not reach underneath the workpiece.** *The guard cannot protect you from the blade below the workpiece.*
- 3. **Adjust the cutting depth to the thickness of the workpiece.** *Less than a full tooth of the blade teeth should be visible below the workpiece.*
- 4. **Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** *It is important to support the work properly to minimize body exposure, blade binding, or loss of control.*
- 5. **Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** *Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.*
- 6. **When ripping always use a rip fence or straight edge guide.** *This improves the accuracy of cut and reduces the chance of blade binding.*
- 7. **Always use blades with correct size and shape (diamond versus round) of arbor holes.** *Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.*
- 8. **Never use damaged or incorrect blade washers or bolt.** *The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.*

9. Causes and Operator Prevention of Kickback:

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

- Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** *Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.*
 - When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** *Investigate and take corrective actions to eliminate the cause of blade binding.*
 - When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material.** *If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.*
 - Support large panels to minimize the risk of blade pinching and kickback.** *Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.*
 - Do not use dull or damaged blades.** *Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.*
 - Blade depth and bevel adjusting locking levers must be tight and secure before making cut.** *If blade adjustment shifts while cutting, it may cause binding and kickback.*
 - Use extra caution when making a "plunge cut" into existing walls or other blind areas.** *The protruding blade may cut objects that can cause kickback.*
- Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** *If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.*
 - Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** *Lower guard may operate sluggishly due*

to damaged parts, gummy deposits, or a build-up of debris.

12. **Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts." Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.**
13. **Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.**
14. **DO NOT USE THIS SAW WITH THE SAW HELD UPSIDE DOWN IN A VISE. The saw is not designed for such use and cannot be used safely in that position.**
15. **Do not use to cut logs, tree limbs, or uneven lumber.**
16. **Wet lumber, green (unseasoned) lumber, and pressure treated lumber all have an increased potential for kickback and should only be cut with a blade for cutting that lumber type. Wear a NIOSH-approved respirator and have appropriate ventilation whenever cutting pressure treated lumber.**
17. **Do not use blades made from high-speed steel, abrasive blades, metal-cutting blades or masonry-cutting blades. The guards of this saw are not designed to protect against the failure of such blades.**
18. **Place the larger portion of the saw base on the larger, supported part of the workpiece.** This will help maintain balance and control while the cut is completed.
19. Blades must be rated to at least the maximum speed marked on the tool.
20. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
21. Avoid unintentional starting. Prepare to begin work before turning on the tool.
22. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
23. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
24. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
25. Use clamps (not included) or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
26. This product is not a toy. Keep it out of reach of children.
27. Verify that there are no utility lines or hardware in or near the workpiece. This is especially critical for plunge cuts.
28. Do not depress the spindle lock when starting or during operation.
29. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause

pacemaker interference or pacemaker failure. In addition, people with pacemakers should:

- Avoid operating alone.
- Do not use with power switch locked on.
- Properly maintain and inspect to avoid electrical shock.
- Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.

30. **WARNING:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
- Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - Arsenic and chromium from chemically treated lumber
- Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)
31. **WARNING:** Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)
32. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible

conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.



SAVE THESE INSTRUCTIONS.

GROUNDING

⚠ WARNING

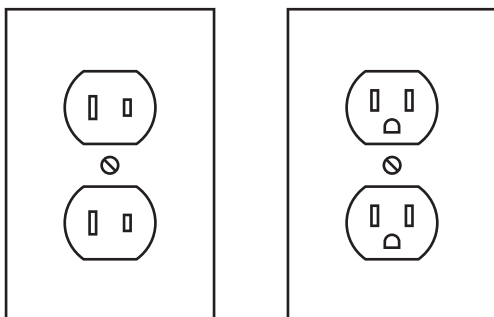
TO PREVENT
ELECTRIC SHOCK

AND DEATH FROM INCORRECT
GROUNDING WIRE
CONNECTION:



Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Double Insulated Tools: Tools with Two Prong Plugs



Outlets for 2-Prong Plug

1. Tools marked “Double Insulated” do not require grounding. They have a special

double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code.

2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. (**See Outlets for 2-Prong Plug.**)

Extension Cords

1. **Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. (**See Table A.**)
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. (**See Table A.**)
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. (**See Table A.**)
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. (**See Table A.**)
6. If you are using an extension cord outdoors, make sure it is marked with the suffix “W-A” (“W” in Canada) to indicate it is acceptable for outdoor use.

7. Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

**RECOMMENDED MINIMUM WIRE GAUGE
FOR EXTENSION CORDS* (120/240 VOLT)**

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-

TABLE A * Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

SPECIFICATIONS

Power Input	120 V~, 60 Hz, 10 A (peak)
Motor	5000 RPM, direct drive
Line Cord	18 AWG x 2
Saw Blade	7-1/4"; 24 tooth carbide tipped (included)
Cutting Capacity	2.5" at 90°; 1.7" at 45°
Arbor	5/8"; Spindle lock
Accessories	Blade removal hex wrench
Features	Automatic guard return
Weight	8.6 lb.
Toe Plate	10-5/8" L x 5-3/8" W



Symbology

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
V~	Volts Alternating Current
A	Amperes
n₀ xxxx/min.	No Load Revolutions per Minute (RPM)

UNPACKING

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

INSTRUCTIONS FOR PUTTING INTO USE



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠️ WARNING

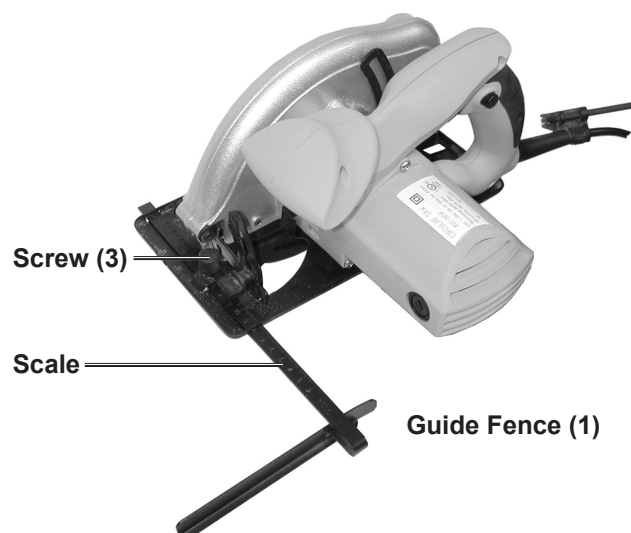
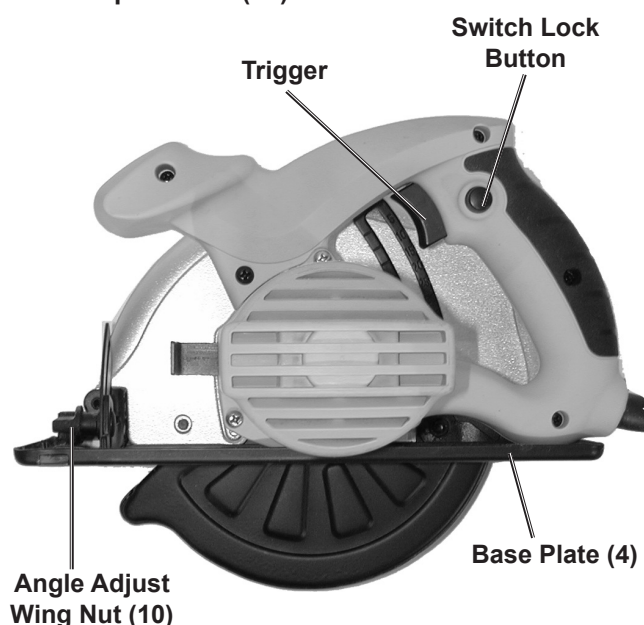
**TO PREVENT
SERIOUS INJURY**

**FROM ACCIDENTAL
OPERATION:**

Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Functions



OPERATING INSTRUCTIONS



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

WARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before adjusting tool or installing accessories.

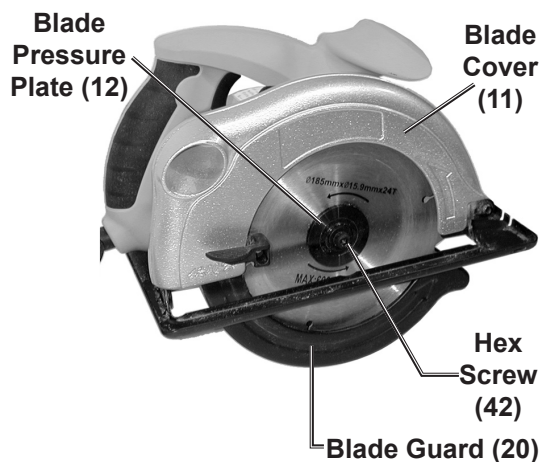
TO PREVENT SERIOUS INJURY FROM FLYING FRAGMENTS:

Do not use blades made from high-speed steel, abrasive blades, or metal- or masonry-cutting blades. The guards of this saw are not designed to protect against the failure of such blades.

Installing a Saw Blade

Application	Blade Description	No. of Teeth	Type of Cut
Fine Trim Molding	Precision Trim Carbide	60 ~ 100	Very smooth, splinter free
Trim, Framing, Pressure Treated Decking	Combination, multi-purpose	24 ~ 60	Smooth, fast cut
Aluminum	Non-ferrous metal cutting	60 ~ 80	----

- Use only a 7-1/4 inch Saw Blade (14). The saw blade speed rating must be at least 5000 RPM. Refer to the above table for saw blade applications and types.
- Unplug the Circular Saw Line Cord (62) from the electrical outlet.
- Raise the Blade Guard (20) as far as possible. See photo on the next page.
- Hold the Blade Guard up and press the Spindle Lock Button with one hand. Rotate the Saw Blade until the Spindle Lock catches and the blade stops.
- Using the supplied Saw Blade Hex Wrench in the other hand, loosen (clockwise) the left-hand threaded Hex Screw (42). Remove the Saw Blade Hex Screw (42), Blade Pressure Plate (12), then the Saw Blade.
- Clean out Blade Cover (11) of any debris.
- Place the new Saw Blade over the Spindle (16) hole.
The Saw Blade teeth at the bottom of the saw blade should be pointing toward the back of the Circular Saw.

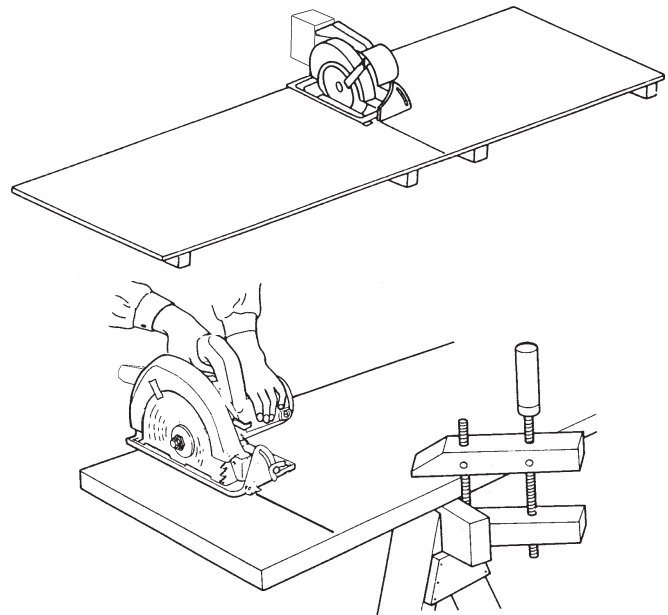


- Place the Blade Pressure Plate (12) over the Spindle hole, then insert the Hex Screw (42).
- Press the Spindle Lock Button with one hand, and tighten the Blade Screw (clockwise) using the Hex Wrench with the other hand.
-

Work Piece and Work Area Set Up

1. Work piece selection:
 - a. Work piece must be free of foreign objects and loose knots.
 - b. Do not use to cut logs, tree limbs, or uneven lumber.
 - c. Wet lumber, green (unseasoned) lumber, and pressure treated lumber all have an increased potential for kickback and should only be cut with a blade designed for cutting that lumber. Wear a NIOSH-approved respirator and have appropriate ventilation whenever cutting pressure treated lumber.
2. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
3. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
4. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
5. Verify that there are no utility lines or hardware in or near the workpiece. This is especially critical for plunge cuts.
6. Support large panels to minimize risk of blade pinching and saw kickback.
7. Use the supplied Guide Fence (1) when ripping material by sliding it into the Base Plate (4), and tightening Screw (3).
8. Be cautious that Circular Saw does not cut into supports or workbench.

9. Use the appropriate type of blade for the material you are cutting.



General Operating Instructions

1. To adjust the **angle** of blade from 0 to 45 degrees, loosen Wing Nut (10) and move Base Plate (4) down, observing the degrees indicated on the Angle Bracket (6). Tighten Wing Nut (10).
2. To adjust the **depth** of the cut, lift Depth Lever (38) and move Base Plate (4) down (or up) while observing the amount of saw blade exposed under Base Plate. Push down on the Depth Lever (38) to lock in new depth setting.
3. **WARNING! Verify that Saw Blade (14) is securely tightened and both angle and height adjusting nuts and levers are tight.**
4. **Make sure that all guards are in place and in proper working order and that all adjustment knobs are tight before operation.**
5. If a straight cut is desired, slide the Guide Fence (1) into the side of the Circular Saw and tighten with Screw (3).

or clamp a straight edge to the material to guide the saw on a straight path. Refer to photo above.

6. Place the saw Base Plate on the material to be cut. Align the front notch (right edge aligns with saw blade) on the cut line.
 7. Hold the Circular Saw by both handles. Always keep hands and fingers away from the Saw Blade.
 8. Push in and hold the Switch Lock Button, then squeeze the Switch (61) Trigger with the index finger. Do this before the saw blade touches the material.
 9. With the saw at full speed, move the saw slowly forward to complete the cut.
 10. When the cut is complete, release the Trigger. Do not set the saw down until the blade stops turning.
 11. To prevent accidents, turn off the tool and disconnect its power supply after use. Clean, then store the tool indoors out of children's reach.
6. When the Base Plate is resting flat on the stock being cut, proceed cutting in a forward direction to the end of the cut.
 7. When the cut is complete, release the Trigger and wait for the Saw Blade to come to a stop before lifting the saw out of the cut.
 8. If necessary, complete the cut from the opposite direction in the same manner described above.
 9. When the cut is complete, release the Trigger. Do not set the saw down until the blade stops turning.
 10. To prevent accidents, turn off the tool and disconnect its power supply after use. Clean, then store the tool indoors out of children's reach.

WARNING! Never pull the saw backwards since the Saw Blade will climb out of the cut and kickback will occur.

Pocket Cuts

1. Tilt the saw forward with the cutting guide notch of the Base Plate on the line drawn for the cut.
2. Raise the Blade Guard (20) with the Blade Guard Lever (35).
3. With the Saw Blade just above the material to be cut, start the saw and allow the Saw Blade to come to full speed.
4. Gradually lower the Saw Blade onto the stock using the front end of the Base Plate as a pivot point.
5. When the cutting begins, release the Blade Guard.

MAINTENANCE AND SERVICING



Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠️ WARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication


1. **Before each use**, inspect the general condition of the Circular Saw. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.
Do not use damaged equipment.
2. Before remounting the Saw Blade, remove all sawdust that has accumulated around the safety guard.

3. Regularly inspect and tighten all mounting screws and knobs.
4. Keep Saw Blade clean and sharp. Sharp blades minimize stalling and kickback.
5. Keep guards in good working order.
6. Keep motor air vent clean of dust and debris. Vacuum periodically.
7. If the tool is not operating normally, making unusual noises, or appears defective, stop using it immediately and get it repaired.
8. Clean tool with a damp cloth and light detergent. Do not use solvents as they can damage and crack the plastic parts.
9. **⚠️ WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

Replacing the Carbon Brushes

1. Unscrew the Carbon Brush Covers (55).
2. Pull out the Carbon Brush (54) from each side of the motor and examine them. If they are worn more than half way down, replace them. It could be that they are simply dirty. They can be cleaned using an ink eraser.
3. Replace the Carbon Brushes (54) and Covers (55).

TROUBLESHOOTING

Symptom	Possible Cause	Remedy
Saw does not start when trigger is pulled.	1. No power to line cord. 2. Switch Lock Button not pushed in while pulling trigger. 3. Defective switch. 4. Carbon brushes dirty or worn down.	1. Check electrical outlet for power. 2. Press in button while pulling trigger. 3. Replace switch. 4. Clean or replace carbon brushes.
While cutting, saw slows down.	Carbon brushes dirty or worn down.	Clean or replace carbon brushes.
Saw blade slips while cutting.	Hex Screw (42) loose.	Securely tighten Hex Screw (42)
Blade Guard (20) sticks or does not open easily.	Debris buildup in the Blade Cover (11).	Remove Saw Blade and clean out Blade Cover (11).
Wood burns or smokes while being cut.	Saw Blade dull.	Sharpen or replace Saw Blade.
 Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.		

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

Part	Description	Q'ty
1	Guide Fence	1
2	Round-head Rivet	2
3	Guide Fence Screw	1
4	Base Plate	1
5	Screw M6x16	1
6	Angle Bracket	1
7	Retaining Ring	1
8	Carriage Bolt M6x10	1
9	Washer	1
10	Wing Nut M6	1
11	Blade Cover	1
12	Blade Flange	1
13	Spring Pin	1
14	Sawblade	1
15	Inner Flange	1
16	Spindle	1
17	Shaft Key	1
18	Screw M4x8	4
19	Cover	1
20	Blade Guard	1
21	Screw M5x10	3
22	Bearing 6001Z	1
23	Front Cover	1
24	Bushing	1
25	Screw M5x14	3
26	Gear	1
27	Spring Washer	4
28	Spring Washer	1
29	Fender Ring	1
30	Oil Bearing	1
31	Housing	1
32	Spring	1
33	Spindle Lock	1

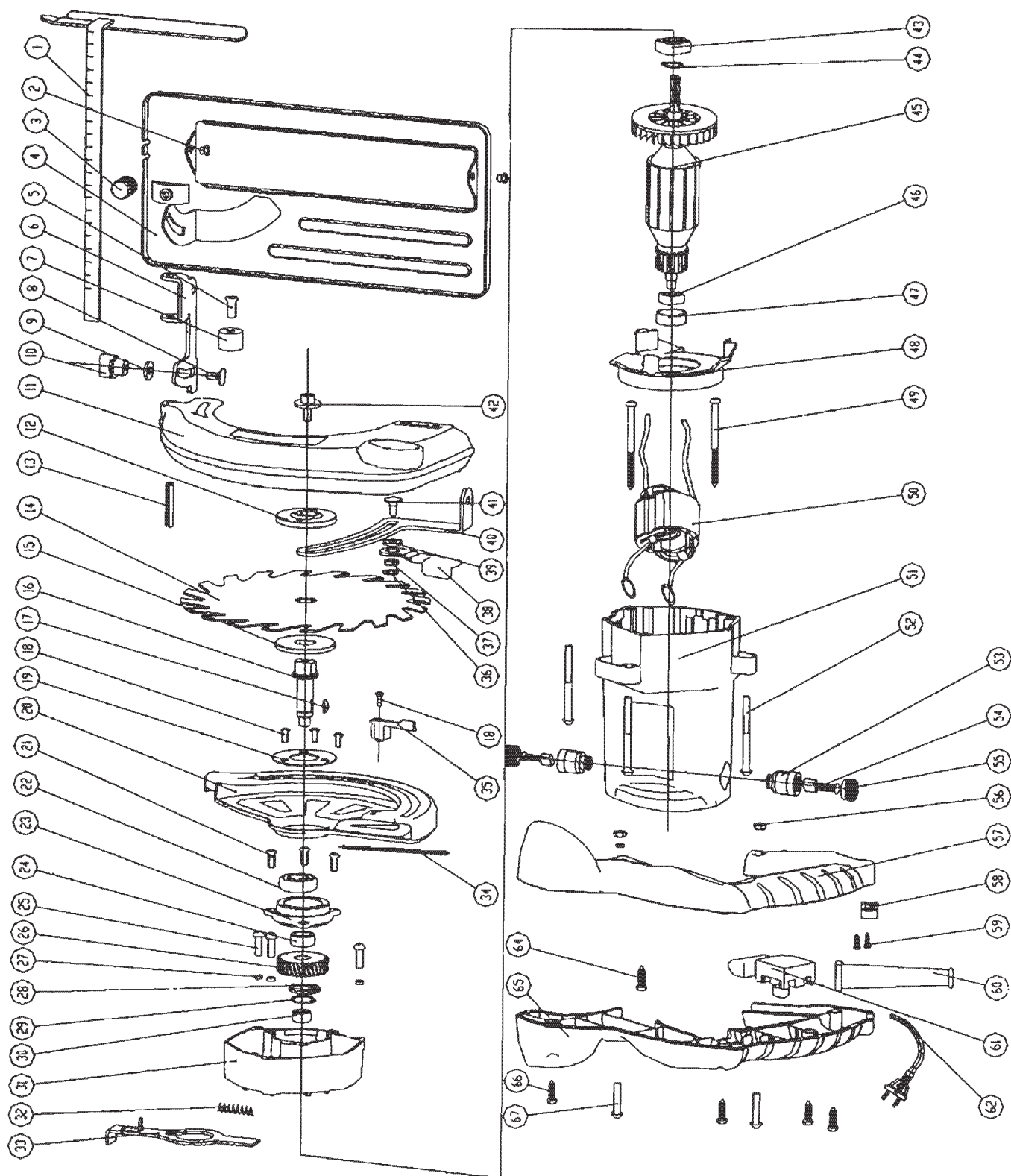
Part	Description	Q'ty
34	Spring	1
35	Blade Guard Lever	1
36	Fender Ring	1
37	Nut	1
38	Depth Lever	1
39	Washer	1
40	Shelf	1
41	Carriage Bolt M6x14	1
42	Hex Bolt M6x16	1
43	Bearing 6000Z	1
44	Fender Ring	1
45	Armature	1
46	Bearing 607Z	1
47	Bearing Sleeve	1
48	Fan	1
49	Tap Screw ST4.8x60	2
50	Stator	1
51	Housing	1
52	Screw M5x58	3
53	Carbon Brush Holder	2
54	Carbon Brush	2
55	Carbon Brush Cover	2
56	Nut M5	2
57	Right Handle	1
58	Strain Relief	1
59	Tap Screw ST4.2x14	2
60	Power Cord Guard	1
61	Switch	1
62	Power Cord	1
64	Tap Screw ST4.2x12	1
65	Left Handle	1
66	Tap Screw ST4.2x16	4

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

ASSEMBLY DIAGRAM



LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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